

Title (en)
Superconducting thin film.

Title (de)
Supraleitende Dünnschicht.

Title (fr)
Couche mince supraconductrice.

Publication
EP 0294285 A1 19881207 (EN)

Application
EP 88401320 A 19880531

Priority
• JP 13693987 A 19870531
• JP 13694087 A 19870531
• JP 14061187 A 19870604
• JP 14061387 A 19870604

Abstract (en)
In a superconducting thin film composed of compound oxide containing at least one of element selected from a group comprising Y, La, Gd, Ho, Er, Tm, Yb, Dy, Sm, Eu and Lu, Ba and Cu, improvement in that said thin film consists of a single crystal or polycrystal whose c-axis is orientated to a predetermined direction or mono-directionally.

IPC 1-7
C30B 23/02; **C30B 29/22**; **H01L 39/24**

IPC 8 full level
C30B 23/02 (2006.01); **H01L 39/24** (2006.01)

CPC (source: EP US)
C30B 23/02 (2013.01 - EP US); **C30B 29/22** (2013.01 - EP US); **C30B 29/225** (2013.01 - EP US); **H10N 60/0408** (2023.02 - EP US); **H10N 60/0604** (2023.02 - EP US); **Y10S 505/729** (2013.01 - EP US)

Citation (search report)
• [X] JAPANESE JOURNAL OF APPLIED PHYSICS, vol. 26, no. 4, April 1987, pages L524-L525, Tokyo, JP; M. SUZUKI et al.: "Hall effect in superconducting (La_{1-x}Sr_x)₂CuO₄ single crystal thin films"
• [X] JAPANESE JOURNAL OF APPLIED PHYSICS, vol. 26, no. 5, 20th May 1987, pages L738-L740, Tokyo, JP; M. KAWASAKI et al.: "High T_c Yb-Ba-Cu-O thin films deposited on sintered YSZ substrates by sputtering"

Cited by
US5231077A; EP0407941A1; US5324714A; US5358927A; WO9119026A1; EP0431595B1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0294285 A1 19881207; CA 1336566 C 19950808; US 4996185 A 19910226

DOCDB simple family (application)
EP 88401320 A 19880531; CA 568212 A 19880531; US 20020688 A 19880531